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1-800-Belden1



### General Description:

18 AWG stranded (16x30) tinned copper conductors, XLPE insulation, sunlight resistant, photovoltaic wire.

### Usage (Overall)

**Suitable Applications:** Interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) of the 2008 NEC.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
1	18	16x30	TC - Tinned Copper

**Total Number of Conductors:** 1

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
XLPE - Cross Linked Polyethylene	0.078	0.209

#### Separator

**Separator Material over Conductor:** Y

#### Overall Cable

**Overall Nominal Diameter:** 0.209 in.

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -40°C To +90°C

**UL Temperature Rating:** 90°C Wet/Dry

**Bulk Cable Weight:** 22 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 21 lbs.

**Min. Bend Radius/Minor Axis:** 2.125 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**UL Rating:** 2000V, 90C

**UL Type:** PV

**EU Directive 2011/65/EU (ROHS II):** Yes

**EU Directive 2000/53/EC (ELV):** Yes

**EU Directive 2002/95/EC (RoHS):** Yes

**EU RoHS Compliance Date (mm/dd/yyyy):** 10/01/2010

**EU Directive 2002/96/EC (WEEE):** Yes

**EU Directive 2003/11/EC (BFR):** Yes

**CA Prop 65 (CJ for Wire & Cable):** Yes

**MII Order #39 (China RoHS):** Yes

#### Flame Test

**UL Flame Test:** VW-1

#### Suitability

**Sunlight Resistance:** Yes

#### Plenum/Non-Plenum

**Plenum (Y/N):** No

## Electrical Characteristics (Overall)

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**

6.000

**Max. Operating Voltage - UL:**

**Voltage**

2000 V RMS

**Max. Recommended Current:**

Description	Current
Single conductor in free air @ 30 ambient	18 amps

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38118 0105000	5,000 FT	115.000 LB	BLACK	C	#18 STR XLPE BLK

**Notes:**

C = CRATE REEL PUT-UP.

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- Консультации по применению компонента;
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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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